

## Committee formed to assist with contractor transition

A Nuclear Division committee has been formed to assist the Department of Energy in the transition to a successor contractor or contractors.

It is headed by Nuclear Division Vice President Clyde C. Hopkins. Committee members are James K. Denton, Division finance manager; Patrick C. Fourney, Division employee relations manager; Vice President George R. Jasny; and ORNL Director Herman Postma. It was created to provide factual information on Nuclear Division operations so that DOE management can make an informed decision on the most suitable contracting arrangement.

The committee met early in August with a DOE study group responsible for developing a recommendation on the way in which the scope of work currently handled by the Nuclear Division should be packaged for purposes of selecting replacement contractors. The objective of the initial meeting was to familiarize the study group with the various interfa-

ces within the current Nuclear Division structure and the services provided by each facility for the others.

As a result of the meeting, the Nuclear Division committee — working with a parallel DOE-Oak Ridge management group — has been asked to provide the study group with an analysis of the impact of several contracting alternatives, such as:

- one contractor for all four facilities
- one contractor for ORNL and Y-12, a second for ORGDP and PGDP
- one contractor for Y-12, one for ORNL and a third for ORGDP and PGDP
- a separate contractor for each facility

The study group's recommendation on the packaging of the four Nuclear Division facilities for proposals by prospective contractors will be presented to a seven-member DOE-Washington Planning Group, which will in turn make its recommendation to DOE management.

**Labor Day, September 6, is a special day at the World's Fair for corporate participants. A \$2 discount coupon is available at the Cashier's Office at the three Oak Ridge installations and at Charlotte Hall, where retirees may pick up the coupons.**

**Special events will include The Association, New Dawn, Up With People, bands, cheerleaders, clogging contests, steel bands and a special on Family Funfair...\$4 for unlimited rides.**

**The \$2 discount coupon is applicable on all tickets for Labor Day only.**

## Thirty-seven employees chosen for Community Service Awards

Thirty-seven Nuclear Division employees have been selected to receive Union Carbide Community Service Awards recognizing their continuing commitment to community service.

The recipients will be honored at special ceremonies later this year for their participation in "voluntary, uncompensated activities that benefit their communities." Each employee will receive a letter of commendation, an award certificate and a pin, in addition to a \$200 award to be contributed to the community organization(s) of the employee's choice.

The honorees were nominated by Nuclear Division employees and selected by committees at each facility composed of Carbide and community representatives. The number of available awards was determined by each facility's employee population.

The 37 recipients are:

**ORGDP — John W. Arendt, Bobby L. Collier, Douglas E. Fain, Robert B. Harrington, Herman W. Jinks, Kathleen D. Moore, Tom G. Peeler, Leslie R. Powers Jr., Esco J. Raines and Floyd E. Walker.**

**ORNL — Robert H. Brown, Charles C. Coutant, Louis O. Gilpatrick, Carolyn C. Granger, Herbert W. Hoffman, George H. Johnstone, Bill G. Lankford, Duane C. Larson, Rose S. Weaver and James T. White.**

**Paducah — Louis T. Bourgois Jr., Elmer C. Breidert, Kenneth W. Carpenter, Donald G. Elrod, Joe Ed Howard, Maurice E. Rollins and Charles W. Turok.**

**Y-12 — Charles F. Chandler, William B. Crowder, William F. Ferguson, Patrick D. Guettner, J. Claude Maples, Lon W. McNeil (retired), Cole E. Ridenour, Floyd L. Teno, E. H. Upton and Robert T. Weaver.**

Photographs and profiles of the 37 recipients will appear in upcoming issues of *Nuclear Division News*.

## DOE solicits interest in facilities' management

The Department of Energy is requesting expressions of interest from organizations for the management, operation and maintenance of its four large DOE facilities operated by Union Carbide in Oak Ridge and Paducah.

The facilities, representing a federal investment of some \$4.2 billion, are engaged in programs supporting energy-related production, research and development as well as national defense.

### Contract negotiations

The Nuclear Division announced in May its intention to withdraw as the operating contractor. DOE and Union Carbide will begin shortly negotiations to extend through September 30, 1986, the current contract, which expires on September 30, 1983. The three-year extension will provide a sufficient period of time for replacing Carbide with one or more contractor organizations.

In requesting expressions of interest through a notice in the Department of Commerce's **Commerce Business Daily**, DOE is asking organizations to state their interest in the management, maintenance and operations of all four of the facilities, including appropriate support services; any one of the facilities, including appropriate support services; or any combination of the facilities including appropriate support services.

### Experienced organizations

Only organizations that have experience in managing operations comparable in size and complexity to the activities conducted in the four facilities are being asked to submit expressions of interest within 60 days of the announcement in the **Commerce Business Daily**.

Following receipt and analysis of the expressions of interest, DOE will later issue to qualified organizations

a formal request for proposals for operation of the facilities.

Present employment at the four facilities totals approximately 17,600, including some 1,300 personnel employed in a central service group located in Oak Ridge. It is expected that essentially all of the present employees will become employees of the new contractor or contractors. The current Fiscal Year 1982 budget for all of the facilities, including centralized support services, is approximately \$2 billion per year, including some \$660 million related to power costs.

ORNL is engaged in broad-ranging energy research and development programs supporting nuclear and engineering technologies, physical sciences, biomedical and environmental sciences and advanced energy systems. Current employment at ORNL is approximately 4,700 and the FY 1982 budget is approximately \$344 million.

### Uranium enrichment

ORGDP and the Paducah Plant are both engaged in the production of uranium enriched in the fissionable U-235 isotope which is used to provide fuel for nuclear power plants in this country and abroad. Current employment at ORGDP totals 3,800 and at Paducah, 1,400. The current FY 1982 budget for ORGDP totals \$535 million and Paducah's budget for FY 1982 totals \$418 million, including electrical power costs for each.

The Y-12 Plant, with a current employment of approximately 6,400, is engaged in the production of nuclear weapons components, engineering and fabrication assistance to weapons design agencies, assistance to other government agencies and to other Oak Ridge facilities. Y-12's budget for FY 1982 stands at approximately \$450 million.

## In this issue...

**Some 50 area teachers and administrators visited ORGDP recently for first-hand knowledge of uranium enrichment facilities. The program included non-technical talks on enrichment processes such as gaseous diffusion, gas centrifuge and advanced isotope separation. See story on page 7.**



### Other features:

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## Abercrombie, Browell promoted in Technical Applications

Robert K. Abercrombie and Robert W. Browell have been named section heads in the Technical Applications organization of Computer Sciences. Abercrombie is head of the production support section in the recently formed Integrated Production Systems Department, and Browell heads the electrical engineering and small computers section in the Special Computing Systems Department.

Abercrombie was born in Atlanta, Ga., and grew up in McClean, Va. He received his BS degree in biology from the College of William and Mary (Williamsburg, Va.) and his PhD degree from the University of Tennessee. Later, while a post-doctoral fellow in computer applications in medicine at the University of Missouri, he received an MS degree in computer science.

Abercrombie joined the Nuclear Division as a computing analyst in the electrical engineering and small computers section in 1980. He, his wife, Amy, and their son live on Hughlan Drive, Knoxville.

Browell was born in Detroit and grew up in Milford, Mich. A Korean war veteran, Browell served in the



Abercrombie



Browell

Chemical Corps Training Command in Fort McClellan, Ala. He received his BS degree in chemical engineering from Michigan State University, and is registered as a professional engineer in Tennessee.

Browell joined the Nuclear Division in the ORGDP Technical Division in 1952. He later worked in Computer Sciences as a programmer analyst and computing specialist.

Browell is a member of the American Institute of Chemical Engineers and the Association for Computing Machinery. He and his wife, Mareta, have three grown children. They live on Cooper Circle in Oak Ridge.

## News About People

### Sklad appointed to EMS committee



Sklad

Phillip S. Sklad of ORNL's Metals and Ceramics Division has been appointed to a one-year term on the Education Committee of the Electron Microscopy Society.

Sklad, a research staff member in the radiation effects and microstructural analysis group of the Metals and Ceramics Division, is involved in the use of analytical electron microscopy of materials science problems.

### Helms certified as industrial hygienist

Ted C. Helms, Industrial Hygiene Department of ORGDP's Employee Relations Division, has been certified as an industrial hygienist by the American Board of Industrial Hygiene.

To be eligible for certification, an applicant must have five years of work experience in industrial hygiene and successfully complete a comprehensive two-day written examination. The exam covers the basic principles of industrial hygiene practice, including air pollution, analytical chemistry, ionizing radiation,



Helms

computations, toxicology, noise, sampling and instrumentation.

## Anniversaries

### ORNL

#### 35 YEARS

James H. Day, Instrumentation and Controls; Gerald N. Case, Chemical Technology; and Donald C. Cole, Engineering.

#### 30 YEARS

Guinn A. Lockett, Plant and Equipment; Richard W. Poole, Plant and Equipment; Elder R. Mellon, Plant and Equipment; Charles R. Miller, Plant and Equipment; and Kenneth L. Vander Sluis, Physics.

#### 25 YEARS

Glen E. Moore, Rufard G. Alsmiller Jr., and Mary S. Guy.

Tsuneo Tamura and Ronald T. Roseberry.

#### 20 YEARS

Allen J. Millet, Mildred B. Sears and Peggy P. Harris.

Justin Kirk Dickens and Richard F. Wood.

### ORGDP

#### 35 YEARS

William T. Mullins, Technical Services; Charles R. Tedder, Maintenance; Andrew J. Thomason, General Accounting.

#### 30 YEARS

Fred W. Ammons, Maintenance; Edward M. Bordes, Maintenance; Billy F. Brummett, Engineering; Kenneth E. Deal, Separation Systems; John S. Herron, Maintenance; Paul E. Melroy, Plant Managers; and Helmon C. Smith, Maintenance.

#### 25 YEARS

Charles P. Chihasz Jr., Juanita P. Church, Olin D. Elrod, George J. Kidd Jr., James L. Lenderman, Alice O. MacIntyre and Clay Parrott.

#### 20 YEARS

Ray W. Barton, William J. Mason, V. R. (Barney) McNeely, James W. Pyland and Enzo Ricci.

### Y-12

#### 30 YEARS

Marian M. Luallen, Industrial Engineering; Dean A. Ford, Dispatching; Emanuel G. Laggis, Development; Hugh F. Henderson, Weld Inspection; Fred W. Walker, Nondestructive Testing; and Garland B. Seaborn Jr., Instrument Engineering.

#### 25 YEARS

Harvey P. Carter, Charles E. Oldham, Thomas K. Bayles and John D. Emch.

### PADUCAH

#### 30 YEARS

Ray Perry, Fabrication; Charles Spencer, Plant Engineering; William McGee, Plant Engineering; Charles Burdette, Instrument Department; and Fred Lewis, Plant Engineering.

#### 25 YEARS

Billy Cronin.

#### 20 YEARS

Robert Turner, William Rudolph and Lewis Barbre.

## Patent granted

Patricia A. Getz, James H. Hickman, Martin C. Conrad and Larry Payne, all of Paducah, for "Process for Recovering Uranium from Waste Hydrocarbon Oils Containing the Same."

UNION  
CARBIDE

### Nuclear Division News

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NUCLEAR DIVISION  
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INTERNATIONAL ASSOCIATION  
OF BUSINESS COMMUNICATORS

Published every other week  
for employees such as:



Sheila T. Brooks, ORNL  
Plant and Equipment Division.





## Ankle ulcers — causes and treatment

by T. A. Lincoln, M.D.

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 21, Y-12, or call the news editor in your plant, and give him or her your question on the telephone.)

The typical patient with chronic ankle ulcers is a woman of 45 to 55 years who is overweight and has a history of varicose veins. These venous ulcers often are called "varicose" ulcers, even though only about half the victims have varicose veins. This condition is surprisingly common and sometimes is seen in younger women and men. In the past few years, some vascular surgeons have led a research effort in an attempt to understand why these ulcers occur and why they do not respond to treatment.

The venous ulcer most often develops following some relatively minor injury to the skin, typically over the medial side of the ankle joint. It almost always is within a hand's breadth of the ankle bones (the tibia and the fibula) which form the bumps on the inside and outside of the ankle joint. The skin often is red and thickened, and there is chronic swelling. The ulcer usually is relatively small

and not particularly painful. It may secrete a small amount of serous fluid, so it must be kept covered.

### Venous insufficiency

The prevailing explanation for these ulcers some 35 years ago was that they were caused by venous insufficiency. This means that the varicose veins do not allow the pumping action of the calf muscles to force venous blood up the leg and back toward the heart. When a person is lying down, the fresh arterial blood from the heart rushes into the legs, going through smaller and smaller arteries until it reaches the capillaries. There, arterial blood loses oxygen and becomes venous blood as it picks up carbon dioxide from the tissue. When the body is in a horizontal position, getting blood back to the heart through progressively larger veins is easy. However, when a person is standing, this column of venous blood must be

lifted against gravity to reach the heart. It is a steep, uphill pathway!

The lifting process is helped by the pumping action of muscles in the leg, particularly the calf, and by valves in the larger veins that prevent the blood from flowing backward. When varicose veins develop because of a genetic weakness that may be aggravated by pregnancy or by a job requiring a great deal of standing, the venous blood is not moved efficiently back to the heart. Increased pressure develops in the small veins around the ankle, and this interferes with the oxygen supply and nutrition of the skin. When a minor injury occurs, the blood supply is inadequate, healing is extremely slow and an ulcer occurs.

### Other causes

The problem with this explanation is that the blood supply to the skin recently has been shown to remain adequate, in spite of the venous insufficiency. The capillary bed often is enlarged rather than shrunken. It also is now clear that the basic problem usually results from an obstruction in the deep veins of the leg. The most frequent cause is a previous case of thrombophlebitis, an inflammation of the deep veins of the leg that leaves them partially blocked with old clots. The varicose veins that develop later are a result of the obstruction.

By using phlebography, a technique in which an opaque dye is injected into the leg and X-ray pictures are made of the deep veins, evidence of deep-vein clots can be found in 80 to 90 percent of limbs with ankle ulcers. Less than half of the patients, however, will provide a

medical history suggesting that they ever suffered from thrombophlebitis. Obviously, blood clots can form without any apparent inflammation.

### Increased pressure

It now appears that the increased venous pressure caused by the obstruction in the deep veins causes a leakage of fibrinogen through capillary "pores." This large molecule polymerizes to form insoluble fibrin, which is deposited around the capillaries and acts as a barrier against efficient exchange of oxygen and carbon dioxide in the tissue. Thus, poor healing results because of a chronic oxygen deficiency in the skin and subcutaneous tissue.

There are several lessons to be learned from this discussion. Whenever an ulcer forms, aggressive treatment, including bed rest, supportive leg bandaging and intensive antiseptic care of the ulcer are essential for healing. Then, the deep circulation must be investigated. In some cases, bypass grafting around the obstruction in the deep veins is necessary to promote better movement of venous blood to the heart.

Of paramount importance is the prevention of an injury that might lead to another ulcer. In some cases, this may mean the development of a new and more cautious lifestyle. If the patient ignores this advice and develops a recurrent ulcer, the result may be a permanent disability. Since treatment methods are still unsatisfactory, secondary prevention is the key.

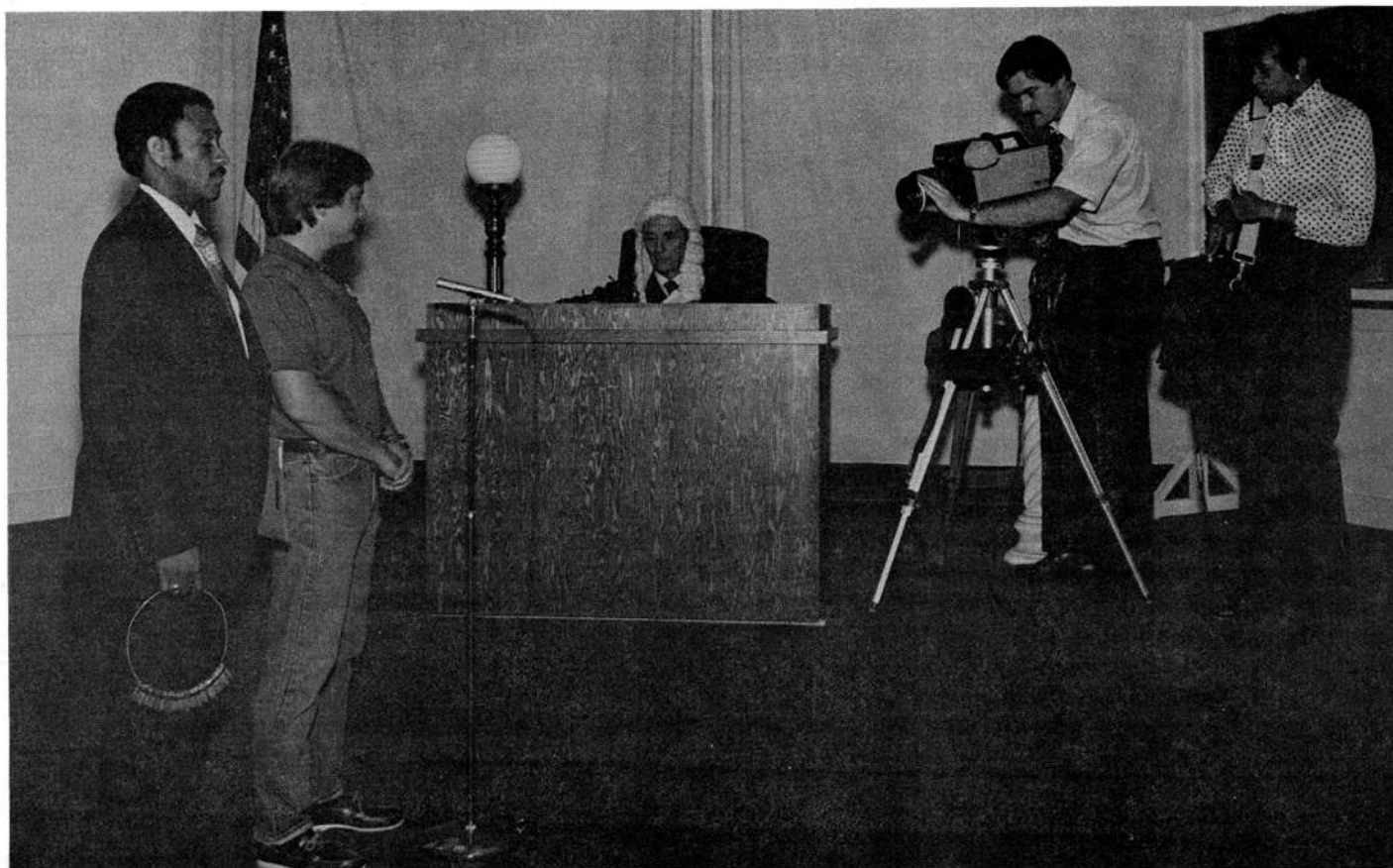
## Engineering course in management set

A new engineering management program is available from the Industrial Engineering Department beginning fall quarter, 1982. The master of science degree is open to qualified engineers and is geared to help engineers become technical managers.

Nuclear Division engineers who decide to join the program will be able to complete all their course work in Oak Ridge. The program format will be through video tape presentations from UTK and live classes.

Registration for the UT-Oak Ridge program for fall quarter '82 will be September 14 and 15 from noon to 6 p.m. In addition to the engineering management courses, courses will be offered in business, engineering, chemistry, computer science, mathematics and physics.

For more information on the engineering management program and other courses, call the UT-Oak Ridge offices in the afternoon at 6-3429.



**THERE WENT THE JUDGE** — "Judge" H. H. Stoner holds court in a recent safety video show entitled "Y-12 Traffic Safety Awareness: Drive to Survive." Written by Wanda Johnson, Y-12 Safety, it centers on "defendants" Bill Crisp, Cal Lunsford, Fred Manneschmidt and Mike Whalen, who all plead guilty to safe driving, both on and off the job. Pat Porter plays the bailiff, Eunice Brown the court stenographer, and Jeanne Moody portrays the court clerk. Hugh Beeson makes a guest appearance as a special witness. The 18-minute production was produced by the Y-12 Color TV Center and will be shown in safety meetings during September, designated as Y-12 Safety Awareness Month. Seen above are Porter, Crisp, Stone and Color TV Center staff members Mike Shepherd and Connie Dunn.

## Next issue...

The next issue will be dated September 16. The deadline is September 8.



# Performance Improvement initiated at Paducah Plant

Plant Manager Clayton Zerby kicked off the first meeting of the Plant Performance Improvement Program at Paducah in July. Division managers and one coordinator from each division attended the first session.

Les Freeman, assisted by Tom Morris of Quality Assurance, organized and instructs the course. Morris coordinates schedules and handles paperwork.

The current session consists of 12 half-day meetings. The second session will include department heads and other key people in the plant. Ultimately, the program will involve a large segment of the plant population.

The program is based on the management philosophy of W. Edwards

Deming, the project concept of quality improvement taught by J. M. Juran, and the extensive use of statistical methods for data analysis.

A major aspect of the program is the use of the Juran tapes. Juran, who was invited by the Japanese Union of Scientists and Engineers (JUSE) to act as a management consultant in Japan during the 1950s, emphasizes a project approach to quality. In April of this year, he released a set of 16 video tapes as a teaching tool for industry. His approach is based on top management participation, continuous emphasis on quality projects and a massive training program.

The course is projected to continue for the next two to three years.

## Question Box

### Is Perimeter Road safe for commuters?

**QUESTION:** The Nuclear Division Safety Policy states "People are our most important asset — their safety and health our greatest responsibility." If this statement is indeed true, why has something not been done about the Blair Road bridge which is now closed? There have been several wrecks on Perimeter Road; with the winter months quickly approaching, I am certain that there will be many more accidents and possibly some fatalities. Why can't something be done about this safety hazard if safety is our first consideration?

**ANSWER:** The Blair Road bridge was closed by the Department of Energy for safety considerations and Perimeter Road was established as a detour. Since that time, DOE has had independent assessments made of the safety of the bridge which confirm that, as a minimum, repair work should be accomplished and load limits strictly maintained if it is to be used again. The bridge and part of Blair Road are in the city limits of Oak Ridge and the remainder of the road is in Roane County outside of the city. DOE has held meetings with both the city and county officials concerning the future of the bridge and road, and additional meetings will be held.

Recent surveys of the Perimeter Road by DOE and Union Carbide Safety staff members indicate the road is safe if posted speeds are observed. Additional curve warning signs have been posted in an effort to reduce the vehicle speed on the curves at the top of the hill. Driving conditions during the winter months will at times be hazardous due to

accumulation of ice on the road. The continued use of Perimeter Road for public travel as a detour must be evaluated further in relation to safety by Union Carbide and DOE as winter approaches.

#### Injury charges

**QUESTION:** If ORNL employees who are physically located at Y-12 have a disabling injury, that injury goes against Y-12's safety records, and those ORNL employees are eligible for the same safety award as those actually on the Y-12 payroll. Why, then, are the Y-12 employees who are physically located at ORNL not eligible for the ORNL safety award?

**ANSWER:** Physical location of employees is not the controlling factor in determining safety records and award values. The current Nuclear Division procedure utilizes payroll account assignment as the determining factor for installation chargeability of accidents and employee eligibility for awards. Thus, an employee physically located at one plant but on a payroll account assigned to another plant will participate in the safety award program of the plant administering the account. If such an employee is injured, the accident is charged in a similar manner.

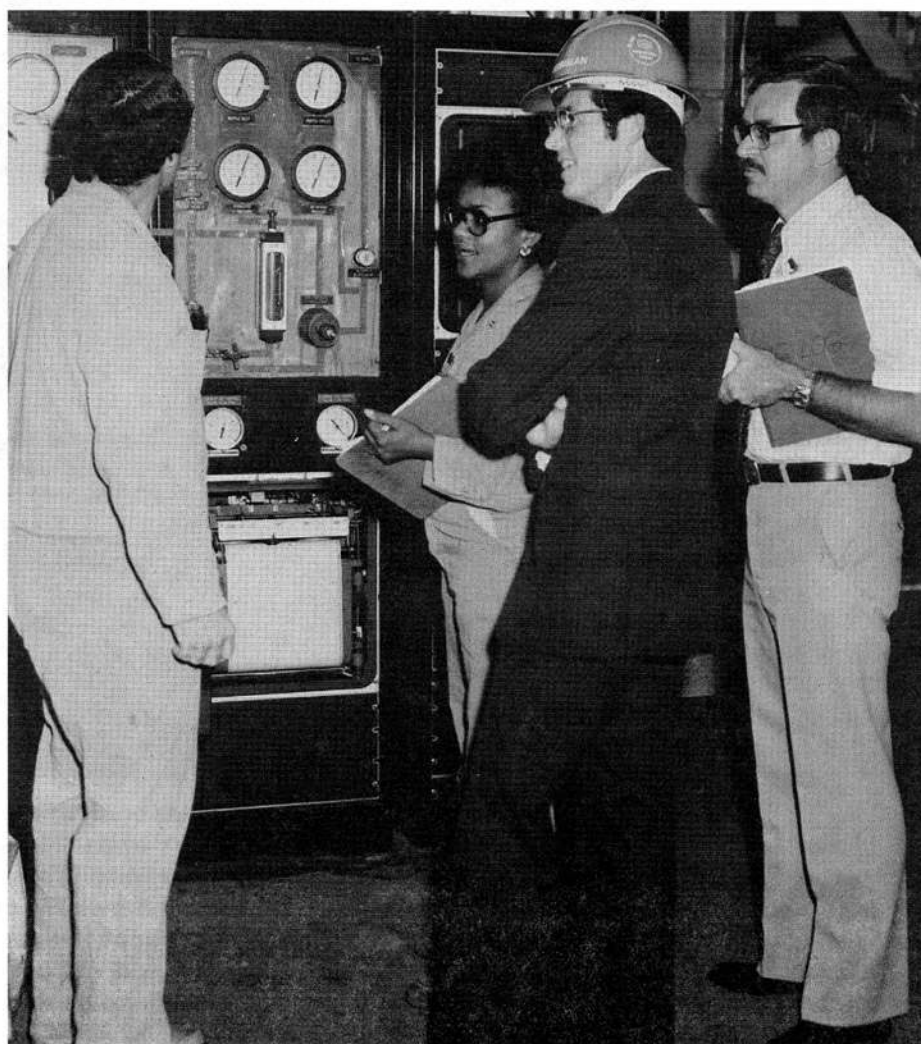
An exception to this general rule is the one to which you refer.

The ORNL employees working at Y-12 and on the 4000 series of payroll accounts traditionally have been designated to participate in the Y-12 Safety Program and continue to do so.

## ORGDP areas earn 'A-plus' ratings



The Second Quarter Plant Appearance inspections were recently conducted at ORGDP. Nuclear Division and Rust Engineering managers who participated in the inspections concluded that noticeable improvements had been made throughout the plant since the previous quarter. The top photograph shows one of the inspection teams entering a storage vault in the basement of the old K-25 Building. Leading the way are, from left, Dennis Archbold, ORGDP Construction Engineering; Robert Stuck, manager of the Rust Engineering operations in Oak Ridge; and William DeRossett, ORGDP Security and Plant Protection Division. In the bottom picture, Jerry Goddard and Susan Thorpe, Process Support Division, discuss an operating panel in one of the enrichment technology development laboratories with Robert Merri-man, manager of Enrichment Technology, and John Kennerly.



## Safety Scoreboard

Time worked without a lost-time accident through August 26:

Y-12 Plant.....	44 Days	1,631,000 Employee-Hours
ORGDP .....	197 Days	4,608,000 Employee-Hours
ORNL .....	71 Days	1,600,617 Employee-Hours
Paducah.....	758 Days	6,365,531 Employee-Hours





## Preventing home burglary

by Larry R. Moore

The physical protection of your home or apartment may be an inexpensive or a rather expensive effort, depending on the level of prevention desired, your knowledge of prevention devices and your own "do-it-yourself" skills.

Unauthorized intrusions into our homes not only cause anger, but also may result in a sense of fear for our lives and property that may require months or even years to overcome. We know that methods of physical protection of our homes will not keep determined burglars from entering, but they may make it difficult enough that the burglars select other, easier targets. Compared to the high cost of a home burglary, most of these protection methods require small personal investments of time and money.

Analyze the physical boundaries of your home. Inspect each room and determine the number of windows and doors that may require some level of protection.

### Securing windows

Are there adequate window latches to lock the tops of the lower windows to the bottoms of the upper windows? Are the latches securely fastened? Is it possible to open the windows from outside by sliding a thin object between the windows to release the latches? The lower windows may be secured by drilling the hole to prevent the window from being raised.

Do the positions of the windows allow would-be burglars to look inside the home and see expensive items? If so, be sure to install heavy curtains or drapes. Also ensure that any garage windows are tinted or covered with heavy curtains. Most burglars, however, do not enter homes through windows when easy access can be gained through doors. Therefore, it is essential that doors

be adequately equipped to thwart entry.

Any hollow wooden doors used at entrances to your home should be replaced with solid wooden ones. You also should ensure that your doors contain a "peep" hole for easy identification of visitors. If your garage doors contain glass windows, replace them with wood. And be sure that the wooden facings on all doors are strong enough to make it difficult to open the doors using a crow bar or other metal tool. It's also important for all door hinges to be located inside the home, not outside where the pins can be removed.

### Wooden doors

Remember, wooden doors with small glass windows at the top can provide prospective burglars with a good view of the inside of your home. This can be prevented by tinting or fogging the windows, or by installing heavy curtains.

As another relatively inexpensive measure, double glass sliding doors also may be secured by drilling a hole and placing a nail at the top of the door. The use of a bar midway in the glass doors and a steel rod with rubber stops installed on the inside track at the bottom of the door will make it nearly impossible to remove the sliding door and enter. Any glass doors that are not secured in this manner should be replaced with solid wooden doors.

Tinting the glass sliding doors will restrict viewing by potential burglars. When untinted doors are open, as much as 60 percent of the home can be seen from a nearby location. If the glass is not tinted, heavy draperies should be used to restrict viewing.

Watch future issues of *Nuclear Division News* for more information on home burglary prevention.

## Savings Plan-Personal Investment Account

	Fixed Income Fund	UCC Stock	Equity Investment Fund
December 76	13.0553	59.2723	8.8166
December 77	14.2017	40.9096	8.0427
April 82	21.0102	47.0939	12.3921
May 82	21.1961	46.2219	12.2376
June 82	21.3831	42.5110	12.1079
July 82	21.5778	42.8226	12.0114

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 11% for 1982. Union Carbide stock values are the average cost of stock purchased during the month. Equity Investment Fund unit values represent the month-end market value of securities held by the Fund. The price of each unit is determined by dividing the total value of the securities by the number of units in the Fund.



James B. Hopkins



Susan L. Horniak

## Hopkins to Y-12 Plant Protection; Horniak heads Employment

James B. "B. B." Hopkins has been named superintendent of plant protection at Y-12 in the Security, Plant Protection and Utilities Division. He is succeeded as employment head by Susan L. Horniak.

Hopkins, a native of Eldo, Mo., joined Union Carbide in 1956 in the Physical Testing Department. He is a graduate of the University of Tennessee, serving in the U.S. Army from his graduation until he joined Union Carbide. He has served as head of employment since 1981.

In his new position, Hopkins will manage and coordinate the activities in the Fire Department, Guard Department and Fire Protection Engineering Group.

Hopkins is a past member of the Oak Ridge Industrial Development Board, the Oak Ridge City Charter

Commission, the Oak Ridge Regional Planning Commission and Anderson County's Conservation Board. He is an active member of the U.S. Army Reserve.

Mrs. Hopkins is the former Pat McWilliams, and the couple lives at 115 Cedar Lane, Oak Ridge. They have three sons.

Horniak, a native of Cleveland, Ohio, is a graduate of Converse College and is currently working on an MBA in industrial management at the University of Tennessee. She joined Union Carbide at the Carbon Products Division, Greenville, S.C., in 1973 and has worked in the corporate headquarters. She transferred to the Nuclear Division in 1978.

Her off-the-job activities include working with handicapped children. Horniak lives at 721 Walker Springs Road, Knoxville.

## Recent Retirements



Barbara H. Estes  
Central Management  
ORNL  
20 years service



Joseph T. DeLorenzo  
Instrumentation and Controls  
ORNL  
34 years service



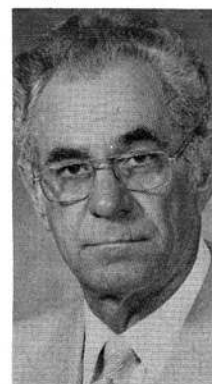
Charles C. Hurt  
Engineering Technology  
ORNL  
35 years service



Elliott D. Carroll  
Instrumentation and Controls  
ORNL  
33 years service



Russell G. Jenness  
Plant and Equipment  
ORNL  
30 years service



Layton N. Howell  
Engineering  
ORNL  
32 years service



Rosemary S. Lockyer  
Finance and Materials  
ORNL  
25 years service



Larry T. Corbin  
Analytical Chemistry  
ORNL  
36 years service

# Carbide DANCE

## Friday, Oct. 1st



FEATURING:

*Hot*  
*Tomata*

9:00 P.M. to 1:00 A.M.

DRESS: CASUAL

(JEANS)

DOORS OPEN AT 8:00

# ST. MARY HIGH SCHOOL

TICKETS WILL GO ON SALE: AUGUST 23, 1982

CARBIDERS ONLY: AUGUST 23 THRU SEPTEMBER 3

CARBIDER GUEST: SEPTEMBER 7 THRU OCTOBER 1

TICKETS: \$10 PER COUPLE IN ADVANCE \$12. PER COUPLE at DOOR

TICKETS AVAILABLE:	BLDG.	BELL EXT.	OTHER
BRENDA ASHLEY	C-100	285	
CURTIS CHENAU	C-400	307	
BRENDA STOKES	C-710	386	
KAY COPELAND	C-300	211	444-6246
JEFF VANDEVEN	C-720	407	
CAROL PAGE	C-720	287	442-1572
JIM FREEMAN	C-720	342	
R.L. (ALEX) ALEXANDER	C-720	336	554-5212
SCOTTY RAY	C-720	494	
ED COTHRAN	C-720	318	
STEVE CHAMBERS	C-710	456	

## Final Softball League scores....

The 71-team softball crowd hung up their gloves recently, ending the 1982 season.

The five-league combinations posted the following final results:

### Atomic League - North Division

Team	Won	Lost
Shifters	12	1
Competitive Inhibitors	11	2
Super Freaks	10	3
B. T. Express	10	4
Magnum Force '82	9	5
Thunder Dogs	8	5
Bruins	8	5
The Warriors	8	5
Prime Time Players	7	6
Sluggers	5	7
Bingles	5	7
Short Circuits	5	8
Nomads	5	8
Green Team	4	8
E S D	4	9
Nite Life	2	8
Ole Ruff & Ready	1	9
Preston Pirates	1	12

### Carbon League - East Division

Team	Won	Lost
Waggin' Tongue	12	1
His & Hers	10	3
Forty-Niners	9	3
The Pac	9	4
K-Bares	9	4
Pirates	8	4
Outlaws	7	6
Grand Slammers	6	7
Ringers	5	8
Doowahs	4	9
Catch One	3	9
Master Batters	3	10
A M D L	2	9
Pits	2	11

### Carbon League - Central Division

Team	Won	Lost
Beer Hunters	13	2
Killer Bees	11	3
Red Eye Gravy	11	3
Double Eagles	9	4
Mean Squares	8	5
Streakers	7	5
Foul Play	7	5
Bad Company	5	7
P. O. I.	5	7
Odds & Ends	4	7
Tom's Turkeys	4	8
Ad-Libs	3	9
Sharks	1	11

### Carbon League - Bush Division

Team	Won	Lost
Mert Dirt	11	1
Cow Patties	9	3
Sweat Sox	9	4
Gators	8	5
Loose Balls	7	5
Profusion	7	5
Stonefingers	6	5
Balrogs	6	6
Fed I	5	7
Bombers	4	7
Super Subs	3	10
Jacks Jocks	2	11
Rotor Rooters	0	12

### Carbon League - West Division

Team	Won	Lost
Mug Huggers	13	0
Stokers	8	4
Tailgators	8	4
The Straps	7	4
Sonny's Bandits	8	5
"The Protectors"	6	5
Knockers	6	6
Whirlybirds	6	6
The Flukes	5	7
Tappers	5	7
Dazed & Confused	5	7
U. S. A.	2	9
"T-Lab Tankers"	1	11

## Paducah softball....

After a season of play, final softball league standings are as follows:

Team	Won	Lost
Buschleaguers	9	2
Sweet Ole Bill's Gang	9	2
Power Steamers	8	3
31 Bunch	7	4
Mean Machine	7	4
Riff Raff	7	4
Ball Busters	6	5
Scrambled A's	5	6
Foul Balls	4	7
The Outcasts	2	9
Benchwarmers	1	10
Maintenance	1	10

First place in tournament play went to Sweet Ole Bill's Gang, with Ball Busters placing second.

## Monday Mixed...

The Four Eagles hold a scant lead in the Union Carbide Monday Mixed League, only a breath ahead of the Lucky Strikes and Whoevers. And look at recent highs: Dave Stacy rolled a 635 scratch series; Barbara a 536 as they continue to pace the alleys. Steve Watson rolled a 666 handicap series; Ruth Hardin a 631. Team highs went to the Whoevers as they posted a 2012 handicap total; the Controllers posted a 2439 handicap tally.

## Family Mixed...

The Oops still lead the Carbide Family Mixed Bowling League, as the Smooth Strokes moved up to within one-half point of the lead. Individual highs went to Mary Montford, with a single of 265 handicap. Mary Goldberg rolled a 717 handicap total. Leanon Schlemper bowled a 259 single, and Wayne McLaughlin holds a 704 handicap series.

## Photographic contest for Paducah; deadline announced as October 18

The Paducah plant's photographic contest will be held during October. Entries, which can be turned in to the Recreation Department, C-100, will be displayed in the cafeteria, where employees may vote for their favorites.

The two divisions are: large format, 8x10 to 11x14; and small format, smaller than 8x10. Categories

include people, places, things and other. First- second- and third-place awards in each category will be given. A best-of-show award also will be presented. Prizes will be gift certificates and ribbons.

All employees and their family members are eligible to enter. Photographs should be submitted by October 18.

## Hootenanny-barbecue September 18

The K-25 Hootenanny picnic will be held Saturday, Sept. 18, with games for the children and various activities for the adults. And don't miss the great frog race: children of all sizes and ages are encouraged to enter their fastest, most fleet-footed frogs. For those who prefer other competition, a mixed softball tournament will begin around noon. If your division has a team to enter, call Dode Gordon for details (4-9171). An arts and crafts display featuring work by plant employees will be ongoing during the afternoon, and the traditional barbecue meal will be served.

For those who want to get an early start on the weekend activities, Bill Chambley will be cooking and serving spare ribs on Friday night. To ensure that you'll get your fill of ribs, call Bill (4-8922) by Wednesday, Sept. 15.

Tickets for the Hootenanny are available through your division representative. For additional ticket information, call Bruce Vaughn, (4-9009) or Fay Duncan (4-8137).



## ORNL A League...

ORNL A League is looking for bowlers to begin the season September 13. They bowl at 5:40 p.m. Mondays at Tri-County Lanes, Oliver Springs.

Interested persons should contact Ray Smith, extension 4-7685.



# Area teachers, administrators, tour ORGDP enrichment facilities

More than 50 high school science teachers and administrators from 24 schools in a seven-county area visited ORGDP on August 20 for a briefing and tour on uranium enrichment.

W. F. Thomas, ORGDP Plant Manager, said the purpose of inviting the teachers to the Plant was to "provide them with information on what we do at ORGDP and help them better understand how it fits into the nuclear power picture."

Participants included biology, chemistry, physics, mathematics and vocational teachers from Anderson, Roane, Knox, Loudon, Monroe, Blount and Campbell counties. Several administrators from Oak Ridge High School and the Knox County Board of Education's Central Office also attended.

The full-day program featured ORGDP as the "Uranium Enrichment Center." It included non-technical talks on all the enrichment processes operated or being developed at the Plant: gaseous diffusion, gas centrifuge and advanced isotope separation.

Presentations also were made on the organizational structure of the Nuclear Division, on the nuclear power industry, and on the environmental and health effects of radiation. Exhibits included a 1958 gas centrifuge machine and a detailed model of the Atomic Vapor Laser Isotope Separation process development module, which is scheduled to be built at ORGDP.



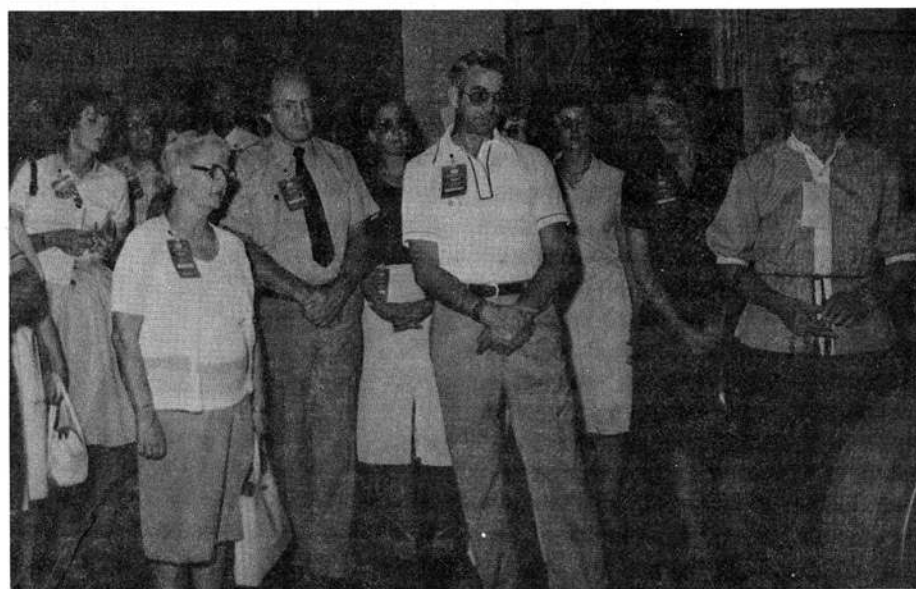
During the tour, the teachers were able to visit an operating gaseous diffusion cell in the K-33 Process Building and the Toll Enrichment Facility. Toll Enrichment is the facility where all uranium hexafluoride feed material is received, weighed and sampled, and from which all enriched product is shipped to customers who have contracted with DOE for the service.

This marked the first time a program on uranium enrichment was arranged for science teachers in the Oak Ridge area. Reactions of the participants were very positive.

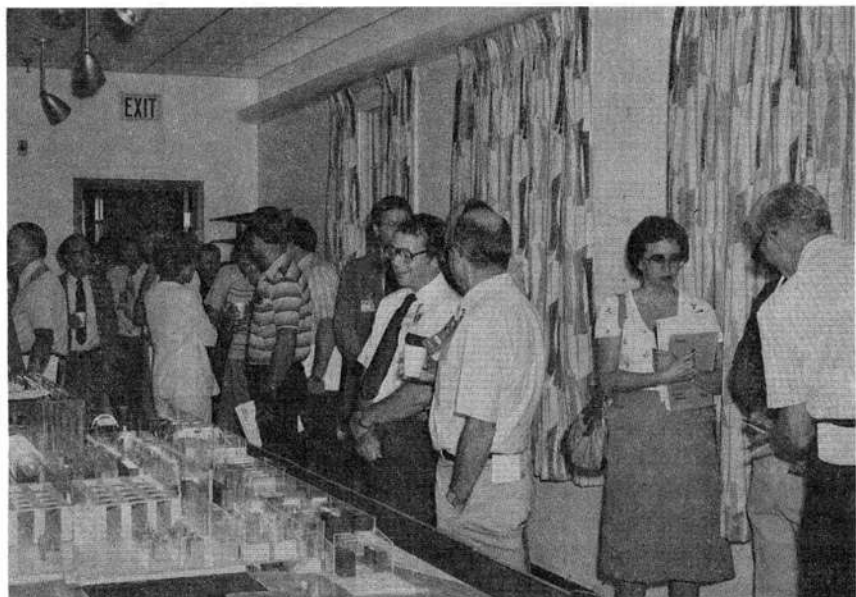
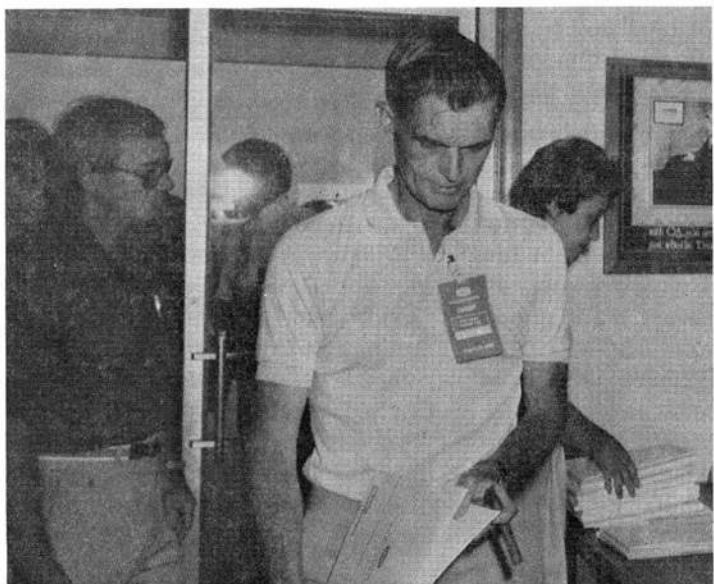
One teacher from Rockwood High School wrote on his evaluation form, "The information I received today will be very beneficial in answering students' questions in chemistry and physics classes." Another wrote, "Very down-to-earth and useful. Science teachers need more practical information and demonstrations like this."



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*Stopped*





# Union Carbide Retirees Association



P.O. Box 3501 P.O. Box 238  
Oak Ridge, TN 37830 Paducah, KY 42001  
576-1786

News editor: Al Burris Associate editor: Warner Taylor

Don't forget our reunion/picnic at the Clark Center Recreation Park on Friday, Sept. 24, from 10 a.m. to 4 p.m. All Carbide retirees, spouses, widows and widowers are invited to attend. UCRA memberships are *not* required!

A lunch of fried chicken, baked beans, coleslaw, a dinner roll, ice cream, orange drink and coffee will be available for \$1.50 for those who prefer not to bring their own meals. Please remember to bring your own folding chairs, too.

We also will have a "white elephant exchange" at the picnic. Just wrap any old, tacky item and bring it along to exchange. First, second and third prizes will be awarded for the "wackiest" items. (Special thanks to the ORGDP Credit Union for providing the prizes for this occasion.)

## Recreation news

The organizational meeting of the bowling league will be held at 11 a.m. Wednesday, Sept. 8, at Tri-County Bowling Lanes. All interested

bowlers are invited to attend, and refreshments will be served. You need not be a Union Carbide retiree or UCRA member to join the league, but you must be age 55 or older.

The 1982 UCRA Golf League season (our second) ended recently, with no rainouts during the fifteen-week period! Fifty-two people participated during the season, with an average of 32 playing each week.

Our winners are:

### Men's Division

1. Warner Taylor
2. Nelson Weasner
3. Carl Frazier
4. Bill Hall

### Women's Division

1. Lucile Kreger
2. Emma Taylor
3. Mildred Weasner
4. Marie Brown

Trophy presentations will be made at the UCRA picnic.



**FIRE PREVENTION** — The Paducah Plant fire prevention committee has begun planning for the October 3-9 observance of Fire Prevention Week. A film on safety and an official plant inspection are planned for the event. Committee members are, from left, Ardyce Ballard, Jim Lawson, Willett Johnson, Don Korte, Sam Leone and Mike Wilkerson. Not pictured is Richard Shepherd.

# Save Energy / Share The Ride

## Y-12

RIDE or WILL JOIN CAR POOL from Lenoir City to East Portal, straight day. I. F. Cox, plant phone 4-0532; home phone Lenoir City 986-7805.

VAN POOL RIDERS from Outlets Ltd. Mall, Lovell Road area, to East Portal, 8-4:30. Ray Pollard, plant phone 4-2611; home phone Concord 966-8893.

ONE CAR POOL MEMBER from Fountain City area to any portal, straight day. John Hurst, plant phone 4-0184; home phone Knoxville 687-9630.

FORM CAR POOL from Blaine or Rutledge Pike area to any portal at Y-12, day shift. Phone Linda at 6-5854.

VAN POOL RIDERS WANTED from Kingston/Cherokee Market/Lawnville Road areas to all portals, 8-4:30. Sid Booth, plant phone 4-0546; home phone 376-4579.

CAR POOL MEMBERS (will merge with other car pools) from Old Stage Hills, Kingsgate, Farragut areas to North or Central Portals, 8-4:30. E. H. McBay, plant phone 4-2456; home phone Knoxville 966-7725.

RIDE or JOIN CAR POOL from Lenoir City to East Portal, straight day. I. F. Cox, plant phone 4-0532; home phone Lenoir City 986-7805.

VAN POOL RIDERS WANTED from Maryville/Alcoa to East and Biology Portals, 8-4:30. G. D. Coppenger, plant phone 4-1380; home phone Maryville 983-5939.

phone 4-5723; home phone 693-3211.

VAN POOL RIDERS NEEDED from Sutherland Avenue and Papermill Drive area, to ORNL, 8:15-4:45. D. P. Atkins, plant phone 4-5463; home phone 584-3766.

CAR POOL MEMBER WANTED from Knoxville, Middlebrook Pike/Robinson Road/Piney Grove Church Road (Landmark, Stonebrook and Canby Hills subdivisions), to East Portal, 8:15-4:45. J. W. Nave, 4-4485; or J. W. Simms, 4-5926.

RIDE NEEDED from Oak Ridge Highway between Karns and Solway to East Portal, 8:15-4:45. Peterson, plant phone 4-4483; home phone 690-3989.

VAN POOL RIDERS NEEDED from Walker Springs area (Sans Souci, Plantation Manor, Wesbridge, Brendon Park and Crestwood Hills) to any portal, 8-4:30. Mike, plant phone 4-4885; home phone 691-4194.

NEED RIDE or TO JOIN CAR POOL from Crossfield Subdivision near Chapman Highway, Knoxville, to East Portal, 8:00 or 8:15 shift. Barbara Rudd, plant phone 4-6462; home phone 577-2018.

CAR POOL MEMBERS NEEDED from Chapman Highway/Vestal area, South Knoxville, 8:15-4:45. Imogene Loope, plant phone 4-6147; home phone 577-8622.

CAR POOL MEMBER WANTED from Cedar Bluff Shopping Center, West Knoxville, to East Portal, 7:30-4. Mark Goodman, plant phone 6-6712; home phone Knoxville 690-4660.

## ORNL

VAN POOL RIDER NEEDED from West Knoxville area (Bearden through Farragut) to main portals, 8-4:30. Dean Treadway, plant phone 4-6580; home phone 584-4879.

VAN POOL RIDER NEEDED from West Knoxville (Cedar Bluff, Middlebrook Pike, Vanosdale Road, Cloth World, Kingston Pike) to any portal except South, 8-4:30. Leon, plant

William B. Howerton, ORNL retiree, and David J. Pruett, ORNL, for "Method for Removing Fluoride Contamination from Nitric Acid."

Ray E. Barker, Allen D. Ryon and Charles D. Scott, all of ORNL, for "Process for Separating Coal Synthesized Methane from Unreacted Intermediate and Contaminant Gases."

# Patents

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